

RMGZ 900 Series Force Measuring Roller

10 times overload protection

No recalibration required

20:1 force measuring range

Accuracy class 0.5%

Nominal forces from 11 - 225 lbs.

Sizes available for every application

Stainless steel sensor, anodized roller

Corrosion resistant, ultra durable



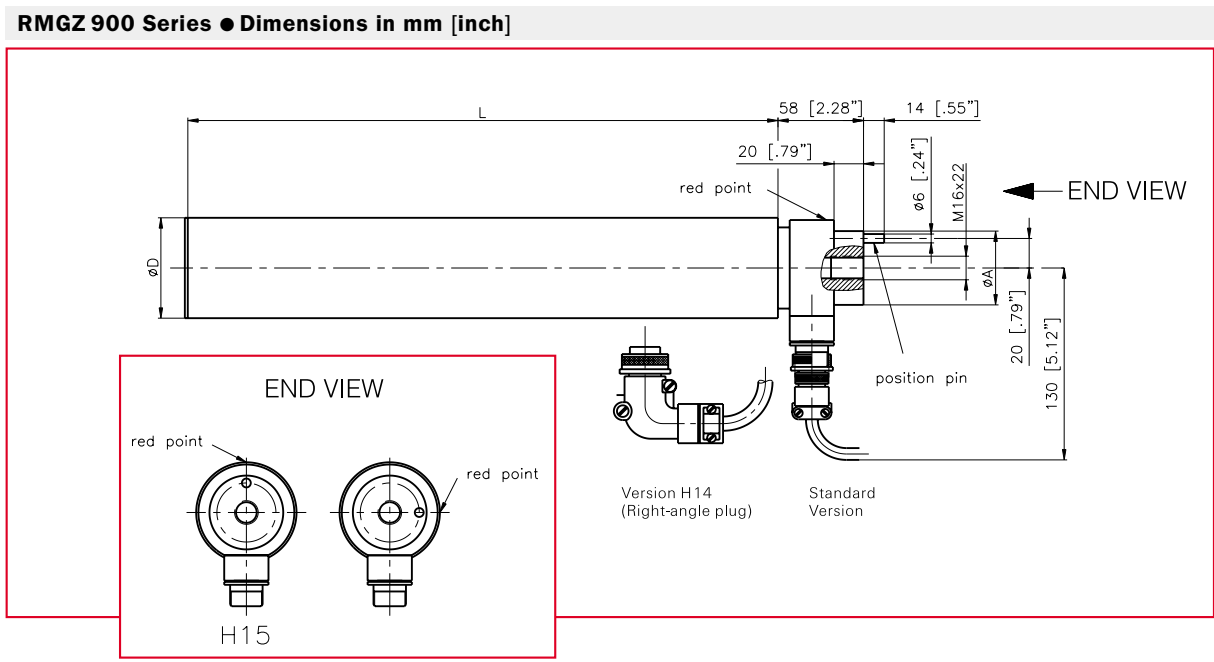
● **RMGZ 900 Series**

The RMGZ 900 Series Force Measuring Rollers are designed as self-contained cantilever mount sensors that minimize machine space requirements in continuous material processing applications. They can be mounted horizontally or vertically directly to the machine frame.

The red point on the base of the sensor indicates the positive measuring direction. Even with low material wrap angles, the design of the RMGZ 900 Series offers high accuracy measuring capability.

● **Functional Description**

Foil type strain gauges in a full Wheatstone Bridge configuration perform the actual tension measurement. The dual flexion beam design ensures accurate measurement at any point on the roller while maintaining the parallel position of the material and eliminating angular deflection. A built-in mechanical hard-stop provides high overload protection ensuring that frequent calibration is not required.



RMGZ 900 Series ● Dimensions / Nominal Force

FMS Order Code	Nominal Force		L		D		A	
	N	lbs	mm	inch	mm	inch	mm	inch
RMGZ915.250.69.E	50	11	250	9.84	69	2.72	50	1.9685
RMGZ921.250.69.E	100	22.5	250	9.84	69	2.72	50	1.9685
RMGZ922.250.69.E	200	45	250	9.84	69	2.72	50	1.9685
RMGZ915.320.69.E	50	11	320	12.6	69	2.72	50	1.9685
RMGZ921.320.69.E	100	22.5	320	12.6	69	2.72	50	1.9685
RMGZ922.320.69.E	200	45	320	12.6	69	2.72	50	1.9685
RMGZ921.400.69.E	100	22.5	400	15.75	69	2.72	50	1.9685
RMGZ922.400.69.E	200	45	400	15.75	69	2.72	50	1.9685
RMGZ925.400.69.E	500	112	400	15.75	69	2.72	50	1.9685
RMGZ921.500.99.E	100	22.5	500	19.67	99	3.9	75	2.9528
RMGZ922.500.99.E	200	45	500	19.67	99	3.9	75	2.9528
RMGZ925.500.99.E	500	112	500	19.67	99	3.9	75	2.9528
RMGZ922.630.99.E	200	45	630	24.8	99	3.9	75	2.9528
RMGZ925.630.99.E	500	112	630	24.8	99	3.9	75	2.9528
RMGZ931.630.99.E	1000	225	630	24.8	99	3.9	75	2.9528
RMGZ922.800.119.E	200	45	800	31.5	119	4.69	75	2.9528
RMGZ925.800.119.E	500	112	800	31.5	119	4.69	75	2.9528
RMGZ931.800.119.E	1000	225	800	31.5	119	4.69	75	2.9528

Options:

- H14** = right angle plug
- H15** = connection plug opposite to the red point
- H18** = straight waterproof plug
- H30** = modified wiring and sealing for oil based environments

Order code:

RMGZ925.400.69.E.H14

Options _____

Scope of delivery:

Straight connection plug, fixing screw
 Special sizes and roller surface treatments available on request

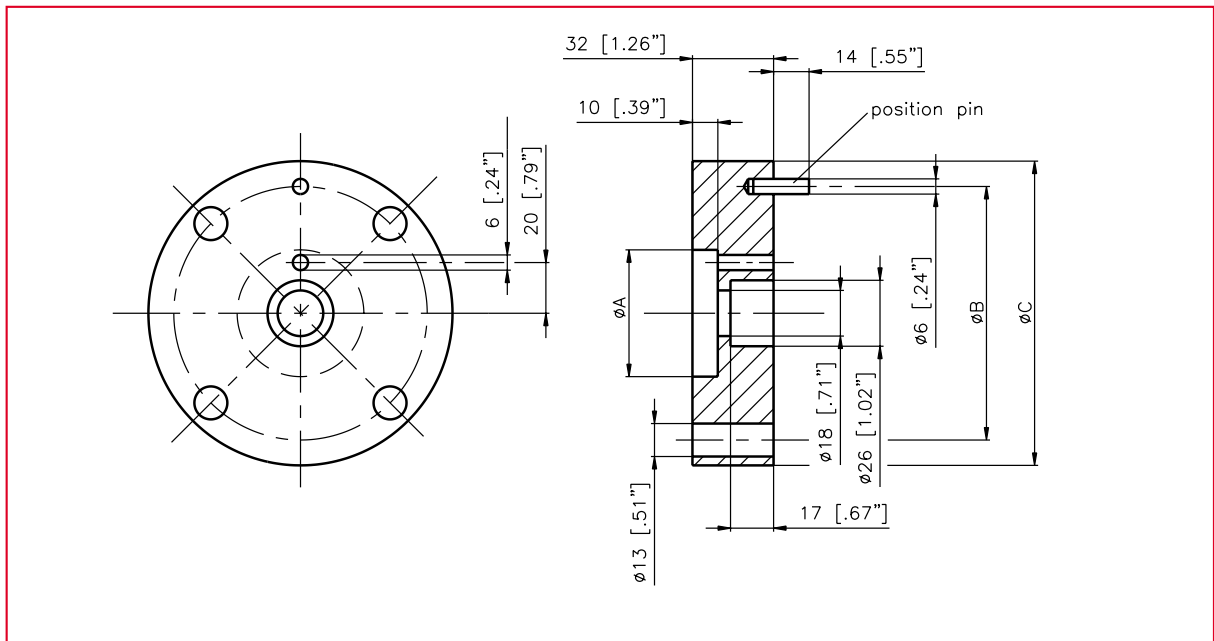
RMGZ 900 Series ● Technical Data

Sensitivity	1.8 mV/V
Tolerance of sensitivity	< ±0.2 %
Accuracy class	± 0.5 %
Temperature coefficient	± 0.1 % / 10 K [± 0.0055 % / °F]
Temperature range	-10...+ 60 °C [14...140 °F]
Input resistance	350 Ω
Supply voltage	1...12 VDC
Overload protection	10 times rated nominal force
Sensor material	Stainless steel
Roller material	Anodized aluminum

Mounting options

The RMGZ 900 Series sensors can be mounted in 2 different ways. Either directly with a location hole to the machine or with a mounting flange which can be ordered separately.

RMGZ 900 Series ● Mounting Flange in mm [inch]



RMGZ 900 Series ● Mounting Flange Dimensions

Mounting Flange FMS Order Code	A		B		C		D ¹	
	mm	inch	mm	inch	mm	inch	mm	inch
RMGZ900.581699	50	1.9685	100	3.94	120	4.7	69	2.71
RMGZ900.582185	75	2.9528	125	4.92	150	5.9	99	3.89
RMGZ900.582185	75	2.9528	125	4.92	150	5.9	119	4.68

¹ D refers to drawing on opposite page

● **The Point is Technology**



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